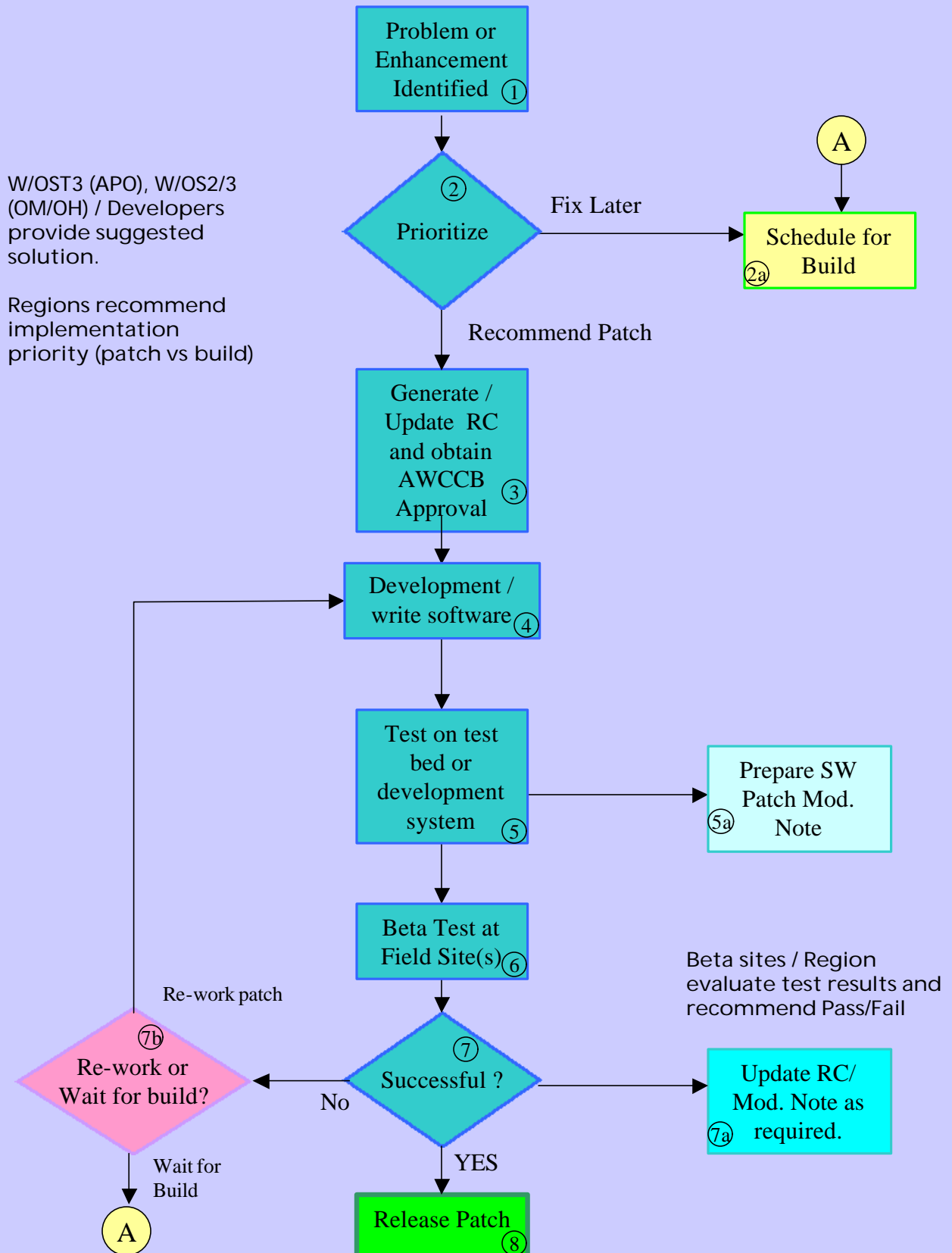


AWIPS Software Patch Process - Overview



Problem or
Enhancement
Identified ①

A problem is identified and DR generated, or an enhancement is proposed. The source for initial information may be the Field, W/OS, an external customer, or a Development organization.

- Problems are reported to NCF, or W/OST3, or the developer and a Discrepancy Report (DR) is generated.
- Suggestions for enhancements discussed with OST3, OS2, or OS3.

The DR or Enhancement is reviewed by OST3, OS2, OS3, and the Development organization(s) as required in order to concur and determine possible fix or solution.

②
Prioritize

The DR/Enhancement is presented to the Regions, along with a recommended solution. The Regions evaluate the information provided to determine the severity of the problem or value of the enhancement. Based on the evaluation, and considering resources available, a priority is recommended (based on consensus). Such recommendation may include:

- Very important – recommend a patch.
- Include in Next Available Build
- Include in a Future Build
- Not important or needed.

②a
Schedule for
Build

Prepare RC
and obtain
AWCCB
Approval ③

If the recommendation is to implement as a patch, a Request for Change (RC) is prepared. A Field Office, OST3, OS2, OS3, or the Development organization may prepare the RC. The RC is reviewed and Adjudicated by the AWIPS Configuration Control Board (AWCCB)

Development /
write software ④

The development organization writes or modifies current software and provides installation instructions. The software is tested at their facility, and if successful, it is forwarded to NWSHQ for further testing.

Test on test
bed or
development
system ⑤

The software is loaded onto one of the NMTW/NHDA systems for in-house testing. If testing is deemed successful NWS coordinates with Regions for further testing at site(s)

Prepare SW
Patch Mod.
Note ⑤a

A Software Patch Modification Note is prepared

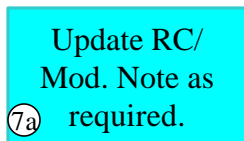
Beta Test at
Field Site(s) ⑥

The software and Modification Note are forwarded to the appropriate Region/Sites for sites testing. (Usually the Region will send the software to the site which initiated the request or found the problem).

The site(s) test the software patch to determine if the problem is fixed or if the enhancement works as intended. The Site(s) may also check out the instructions provided in the Modification Note.



The site(s) notify the Regional HQ on the status of the patch.



If the patch is successful, any necessary changes to the Request for Change (RC) and the Software Patch Modification Notes are done, and the installation manager sends the patch to the SST to confirm that the installation instructions are correct.

The Software Patch Modification Note instructions are forwarded to W/OPS12 so they may be incorporated into the Engineering Handbook and approved as official Engineering Modification Notes.



If the patch is not successful, the Region is informed, and they notify NWSHQ that they are not satisfied with the patch. The development organization(s) are notified and either re-work the patch or determine status for new patch/fix, which may include waiting for a SW build.